



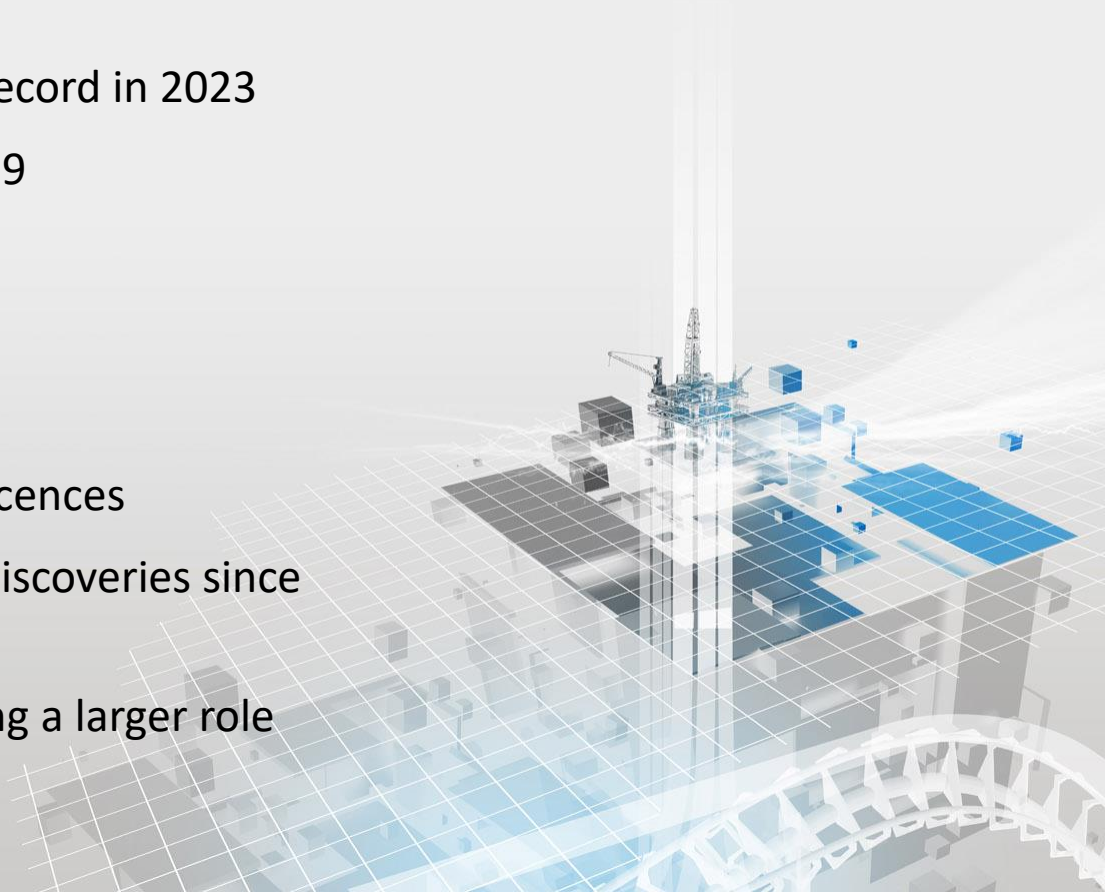
NORWEGIAN PETROLEUM
DIRECTORATE

The Shelf in 2018

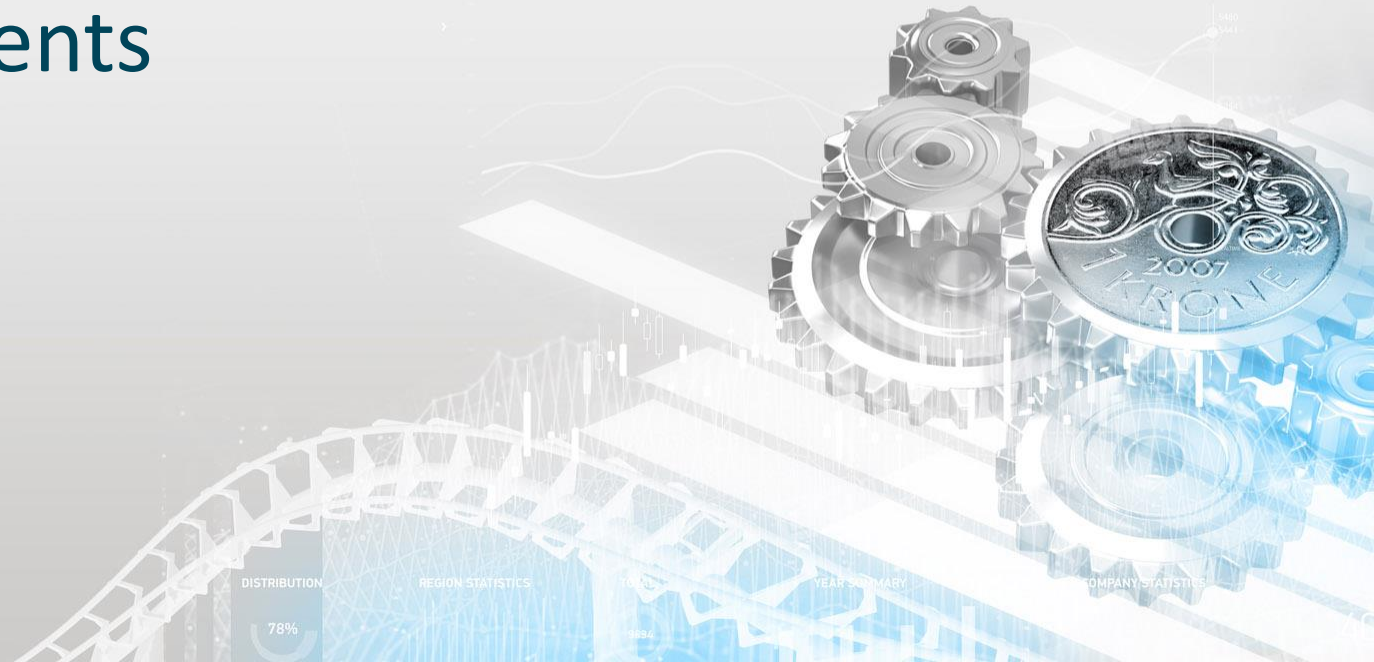
10 January 2019 | Director General Bente Nyland

High activity

- Heading for a new production record in 2023
- Investments will increase in 2019
- Reduced costs
- High growth in reserves
- More exploration
- Record number of production licences
- Highest resource growth from discoveries since 2014
- Medium-sized companies playing a larger role



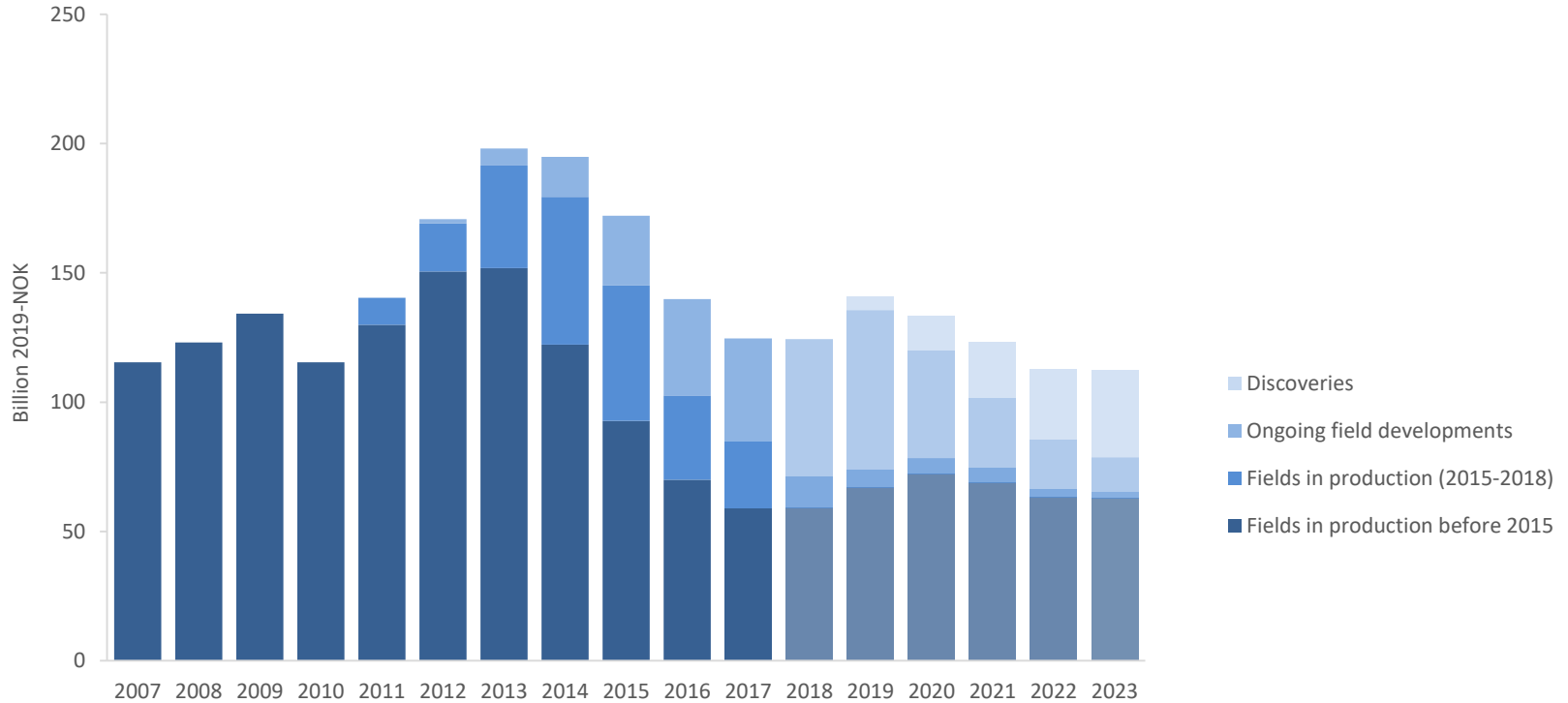
Investments



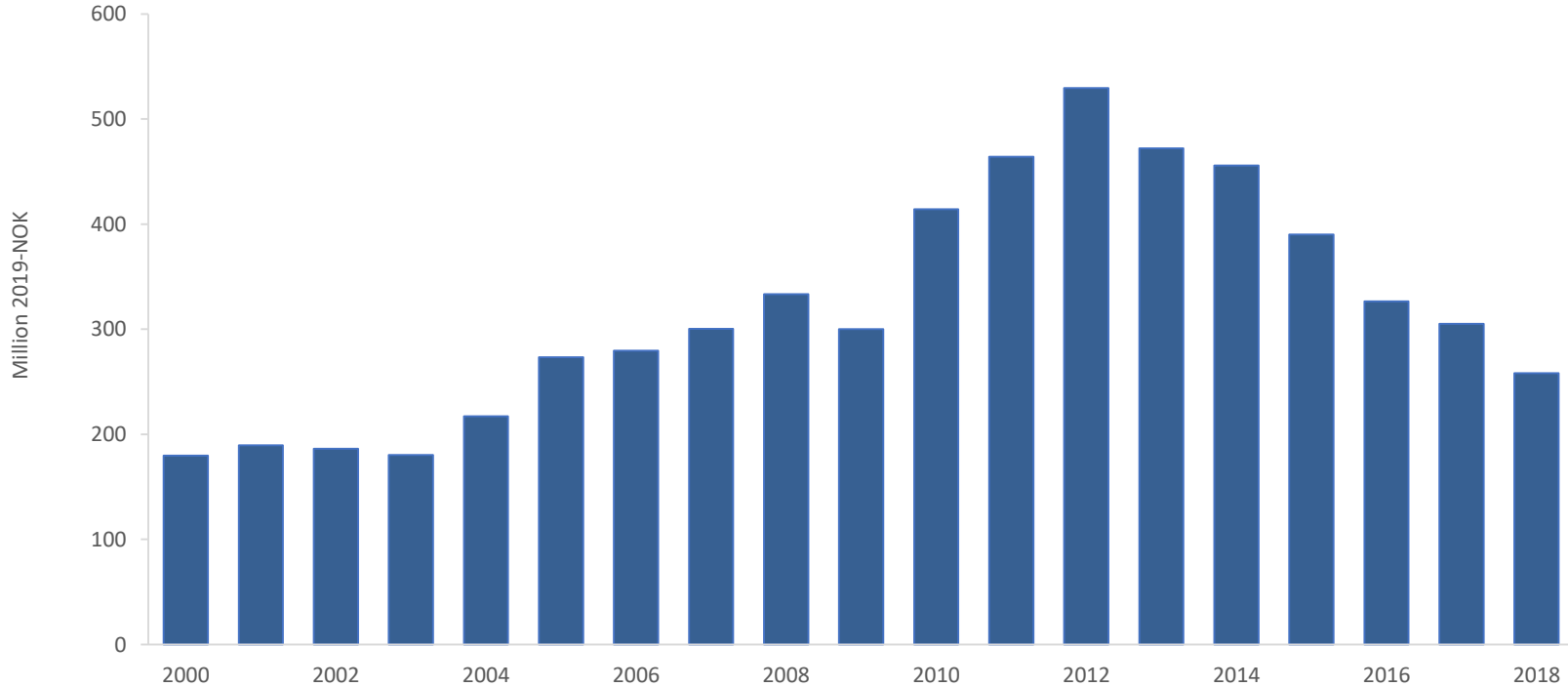
Oil price



Continued high investments – growth in 2019

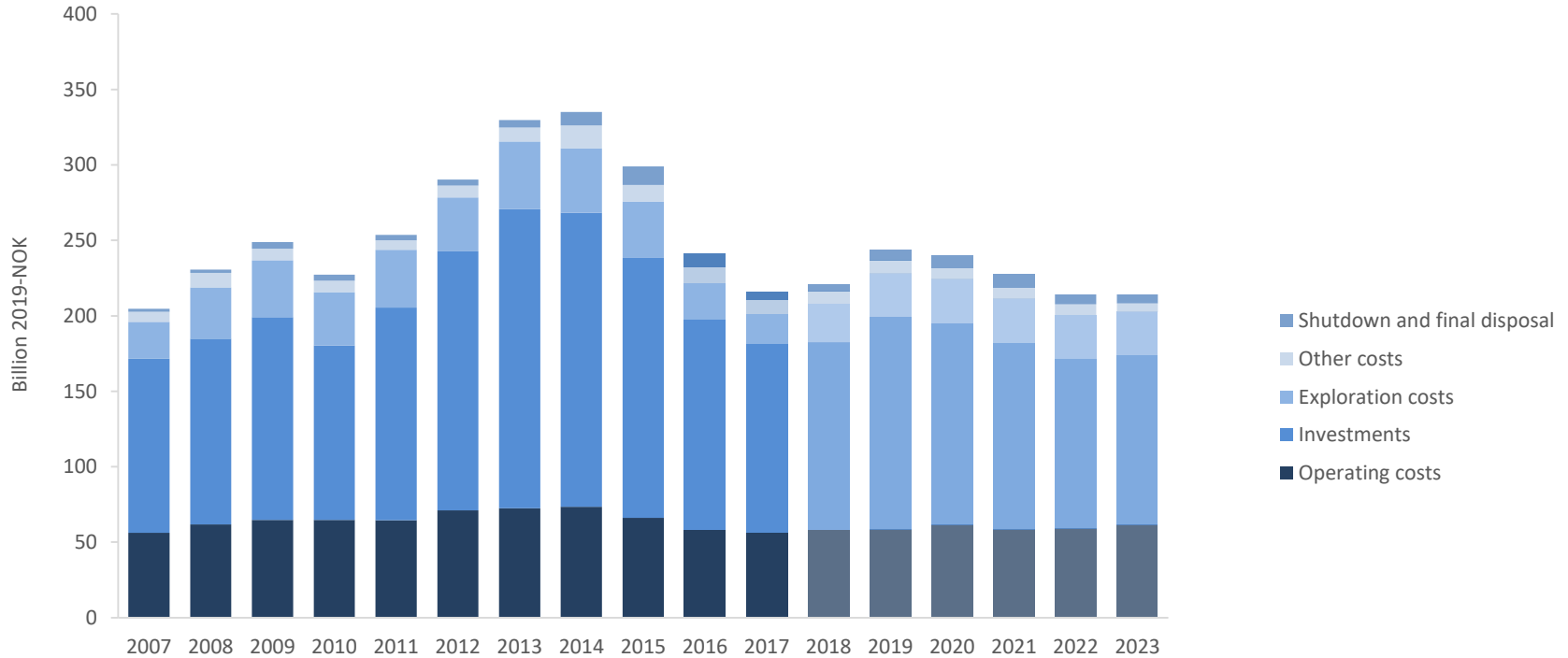


Substantial reduction in average well cost



Stable activity level in next five-year period

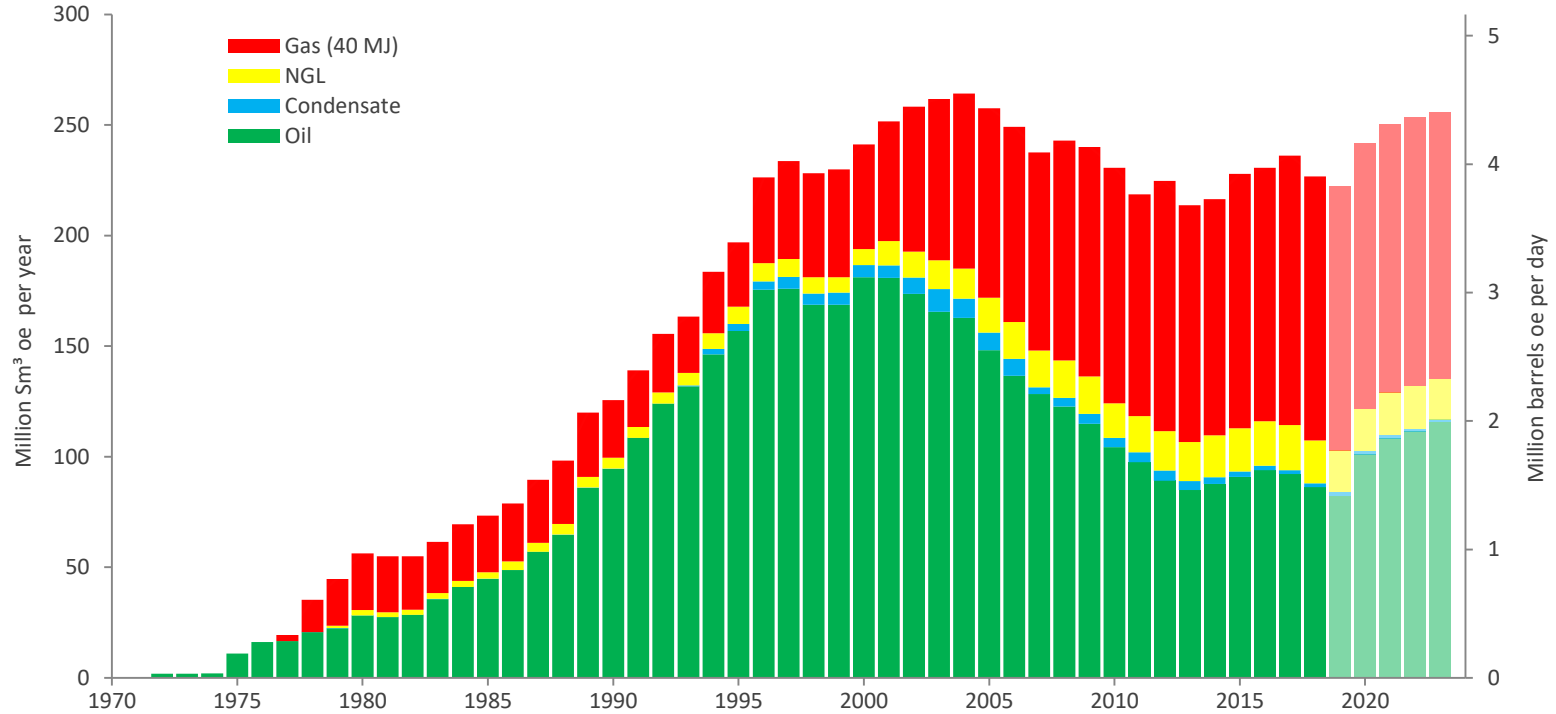
– total costs



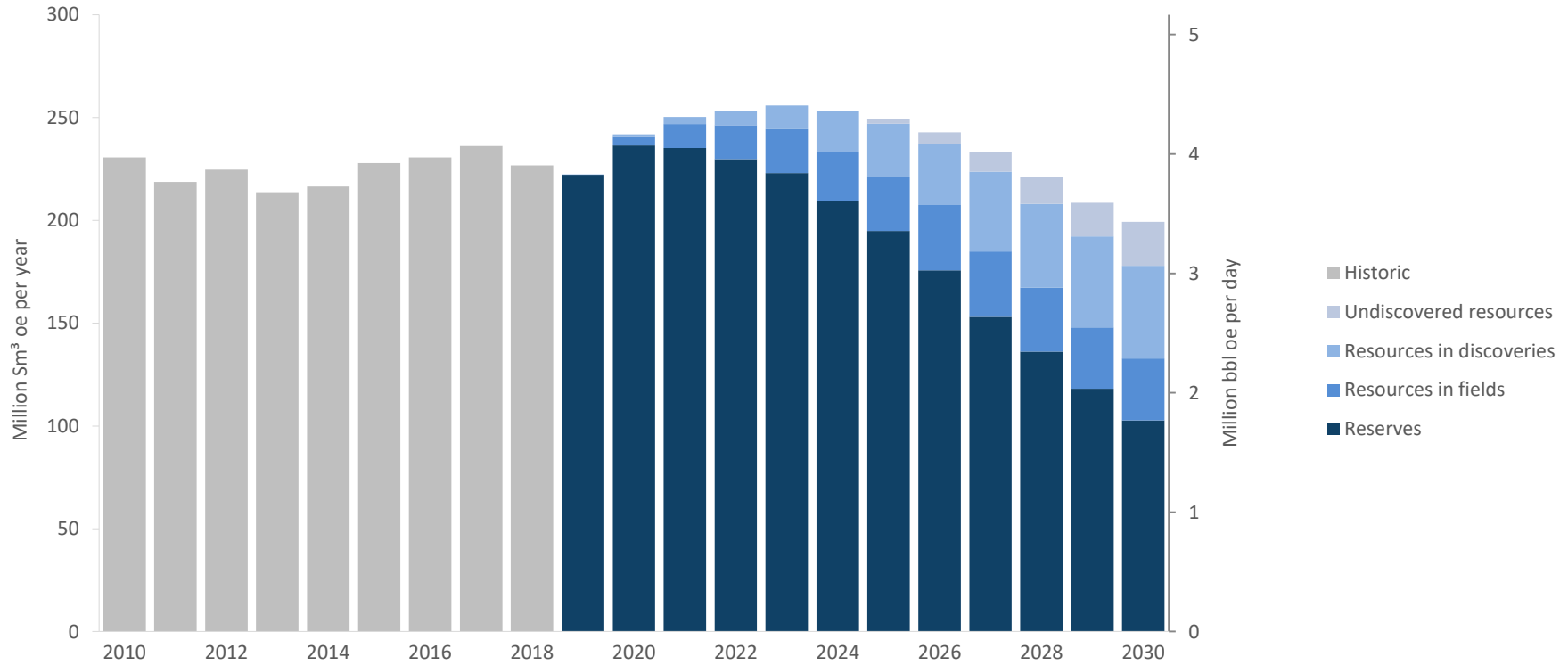
Production



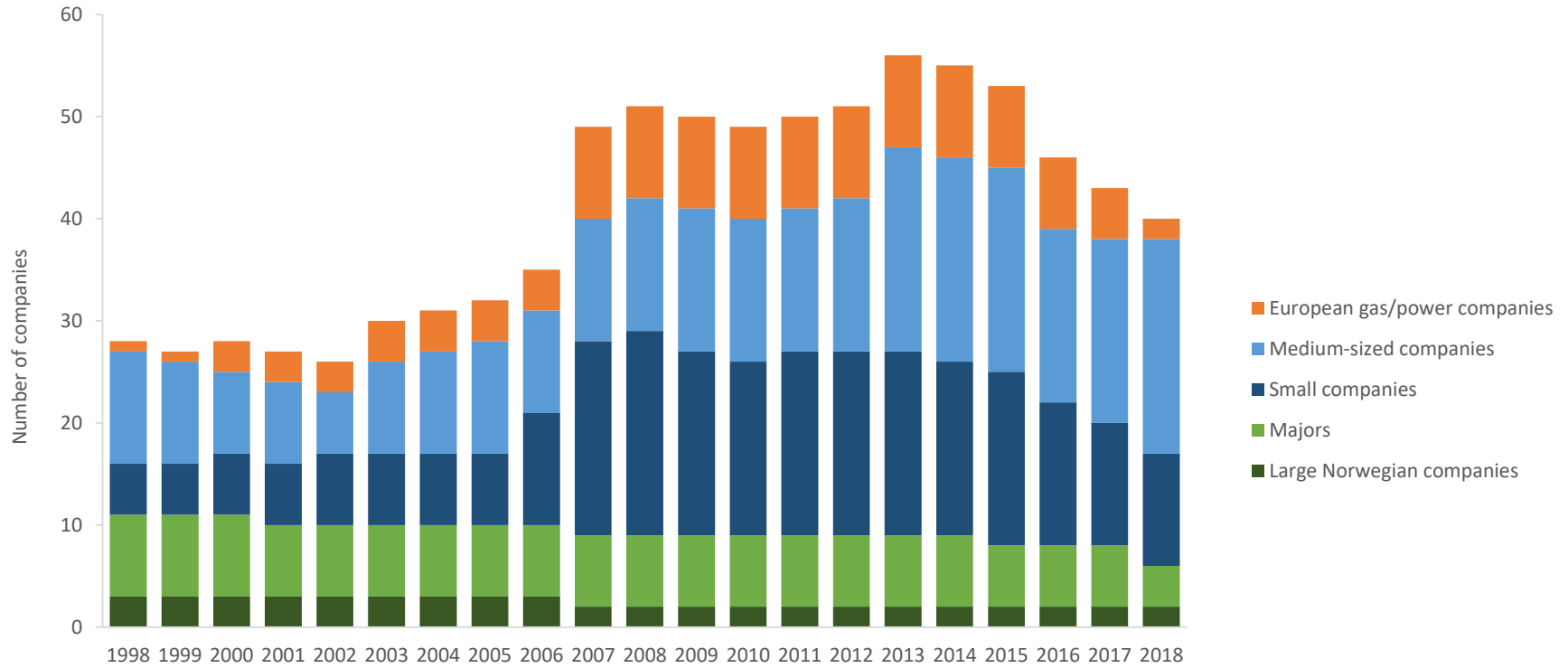
Headed for new production record in 2023



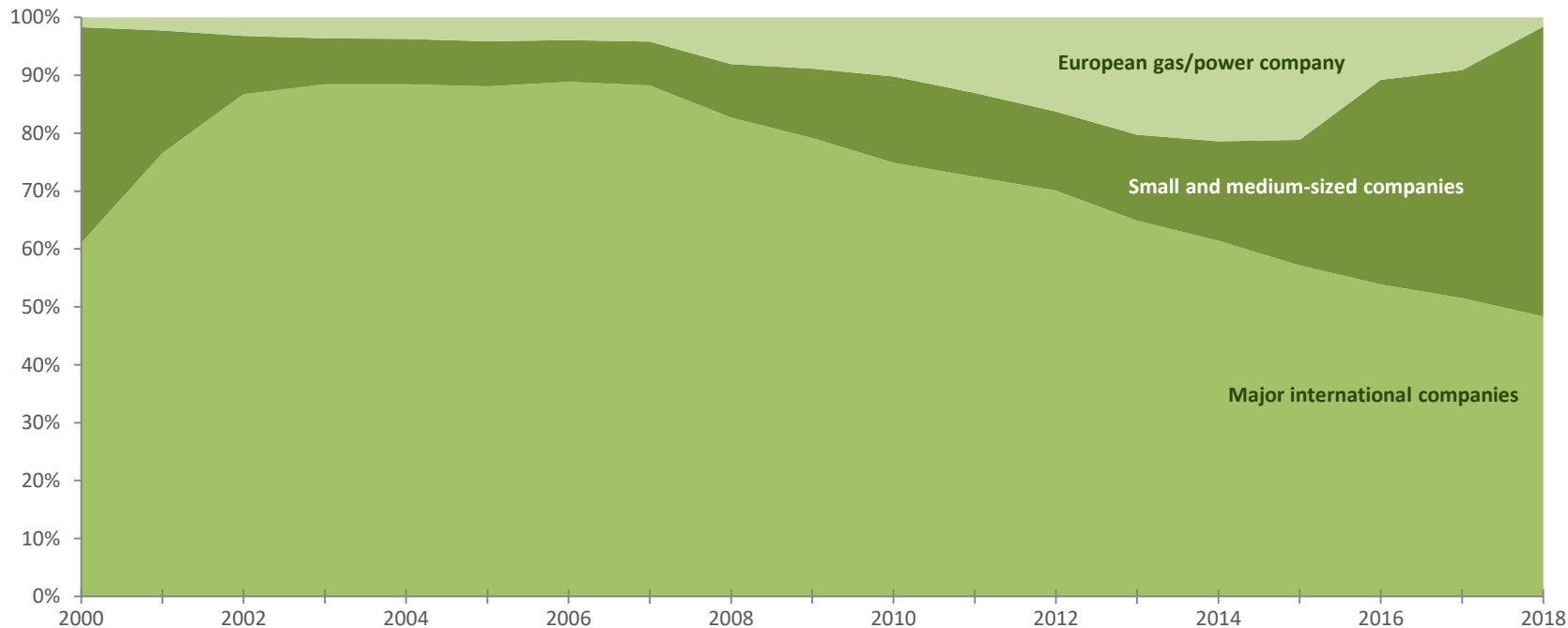
Production forecast up to 2030



Great diversity



Small and medium-sized companies account for a larger share of production



Development and operation

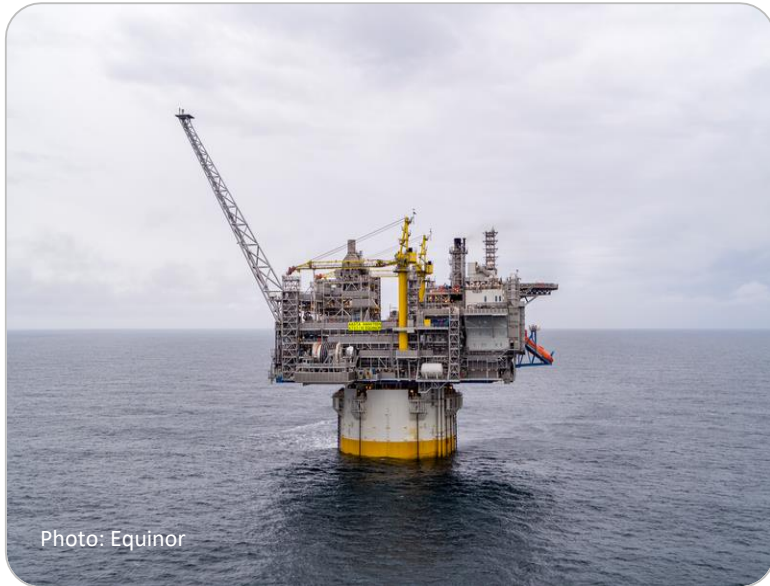


Many fields in production and well-developed infrastructure



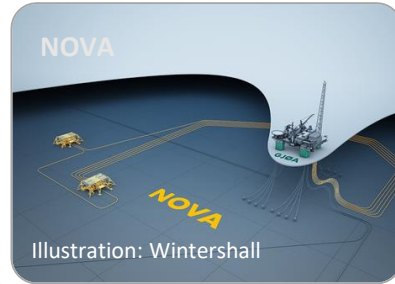
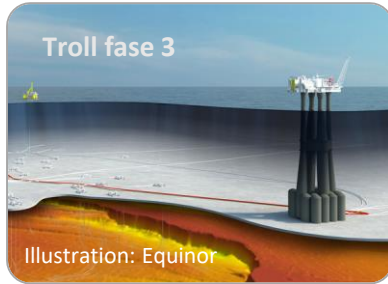
Aasta Hansteen



– new field in production gives new infrastructure in the northern Norwegian Sea



Development plans submitted in 2018

– significant investments yield substantial values





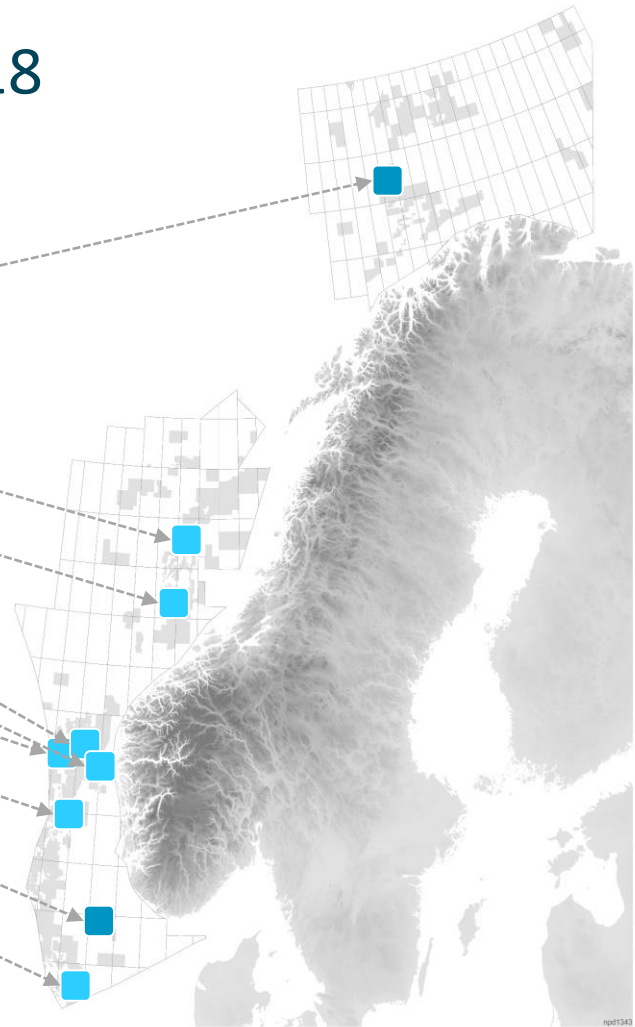
-  New, stand-alone facilities
-  Further development and use of existing infrastructure

Development plans approved in 2018

– further development of the Shelf

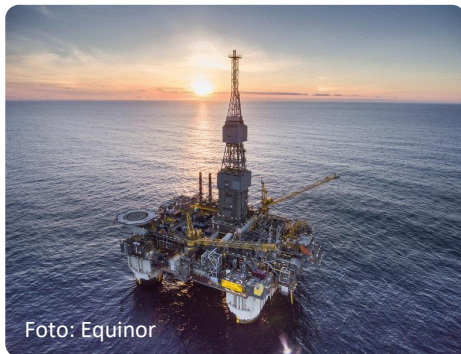
Johan Castberg	Equinor
Ærfugl	Aker BP
Fenja	Neptune
Nova	Wintershall
Troll (Troll phase 3)	Equinor
Snorre (SEP)	Equinor
Skogul	Aker BP
Yme (new development)	Repsol
Valhall West Flank	Aker BP

-  New, stand-alone facilities
-  Further development and use of existing infrastructure



Njord + Fenja + Bauge

– new future in mature area



Bauge	Equinor
Njord	Equinor
Fenja	Neptune

- Approved PDO 2018
- Approved PDO 2017



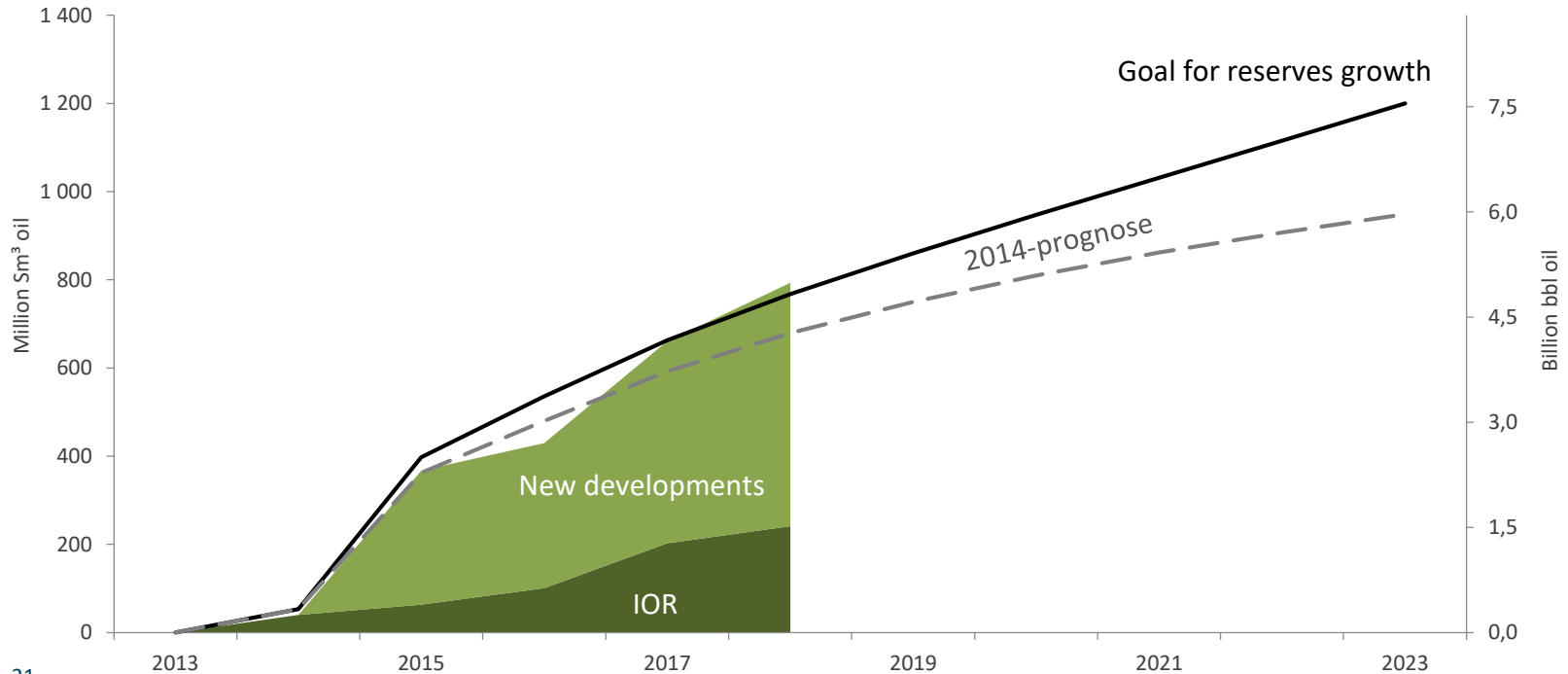
More and better use of data and new technology creates values



Honour and glory for increased growth in reserves...



Continued growth in oil reserves requires decisions



Emission-reducing measures

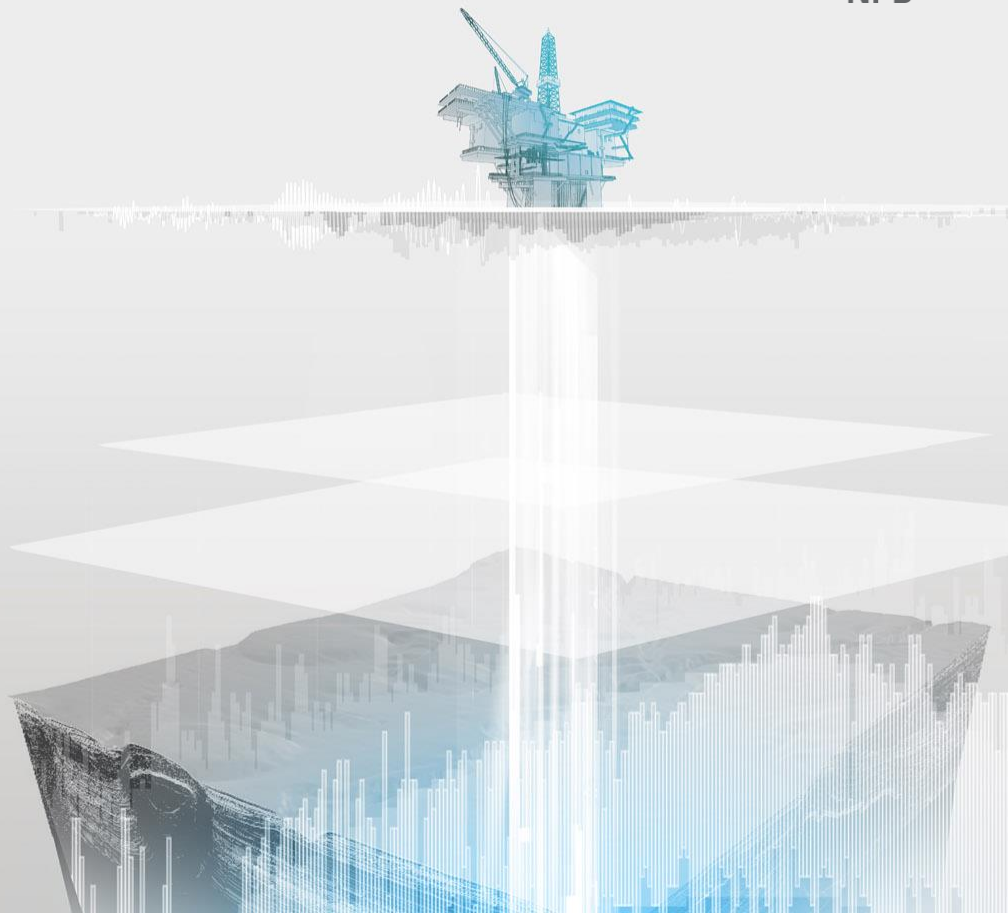


Will store CO₂

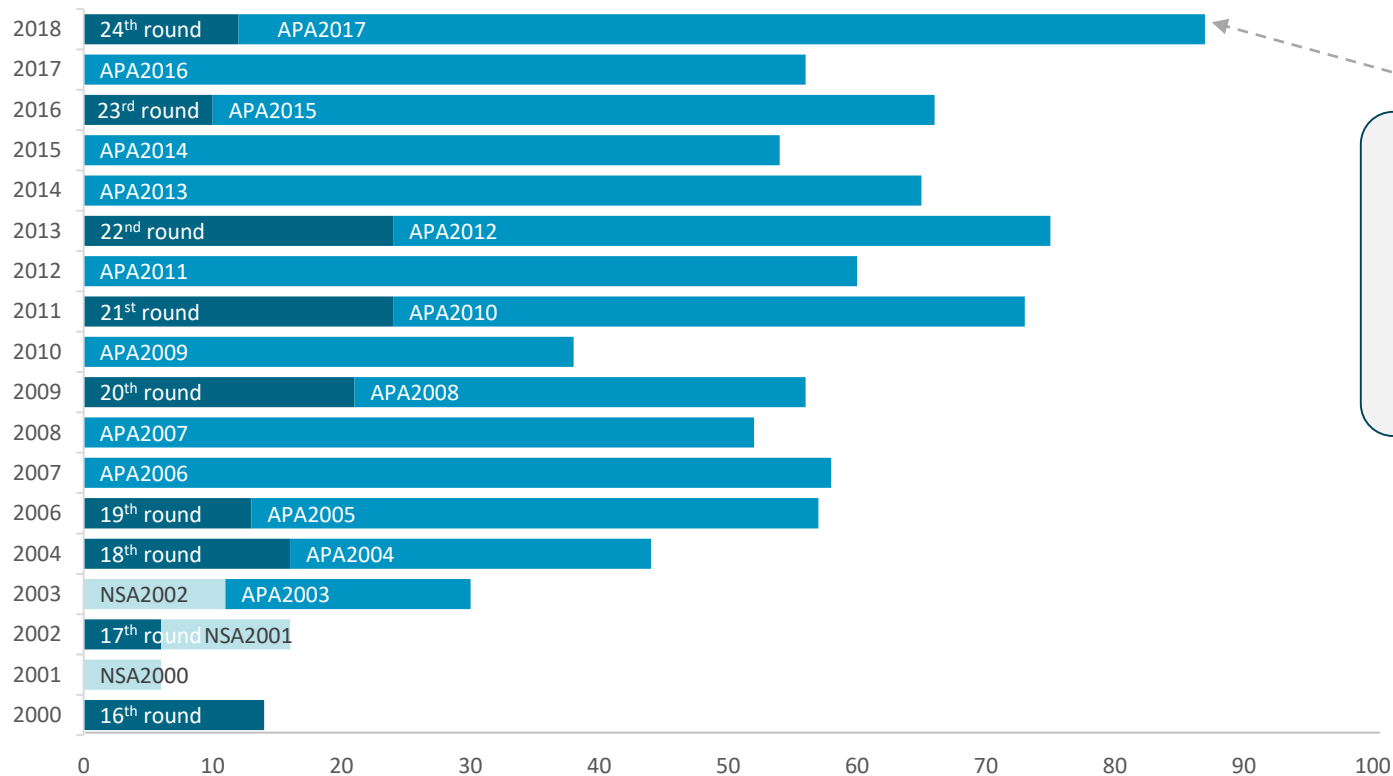
– first application for exploitation permit on the Shelf



Exploration

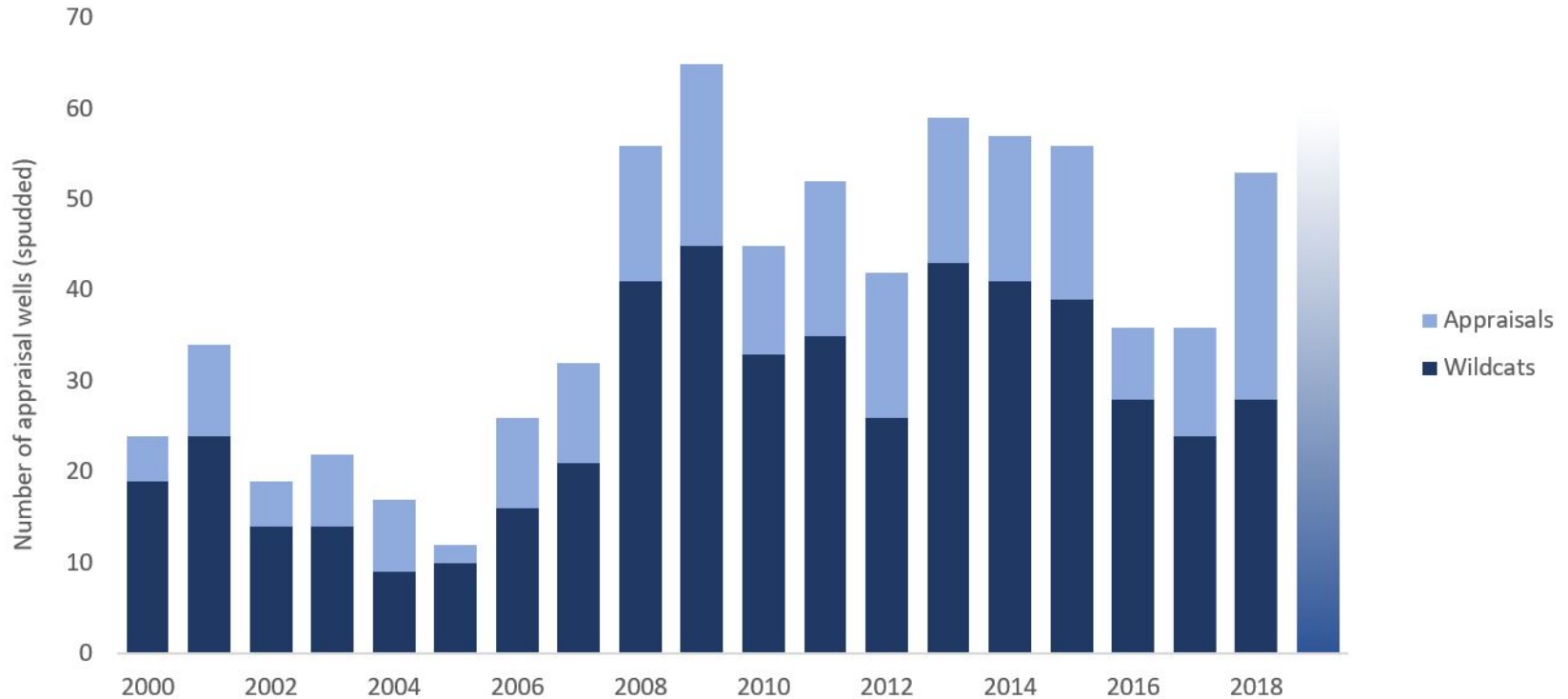


Record number of awards in 2018

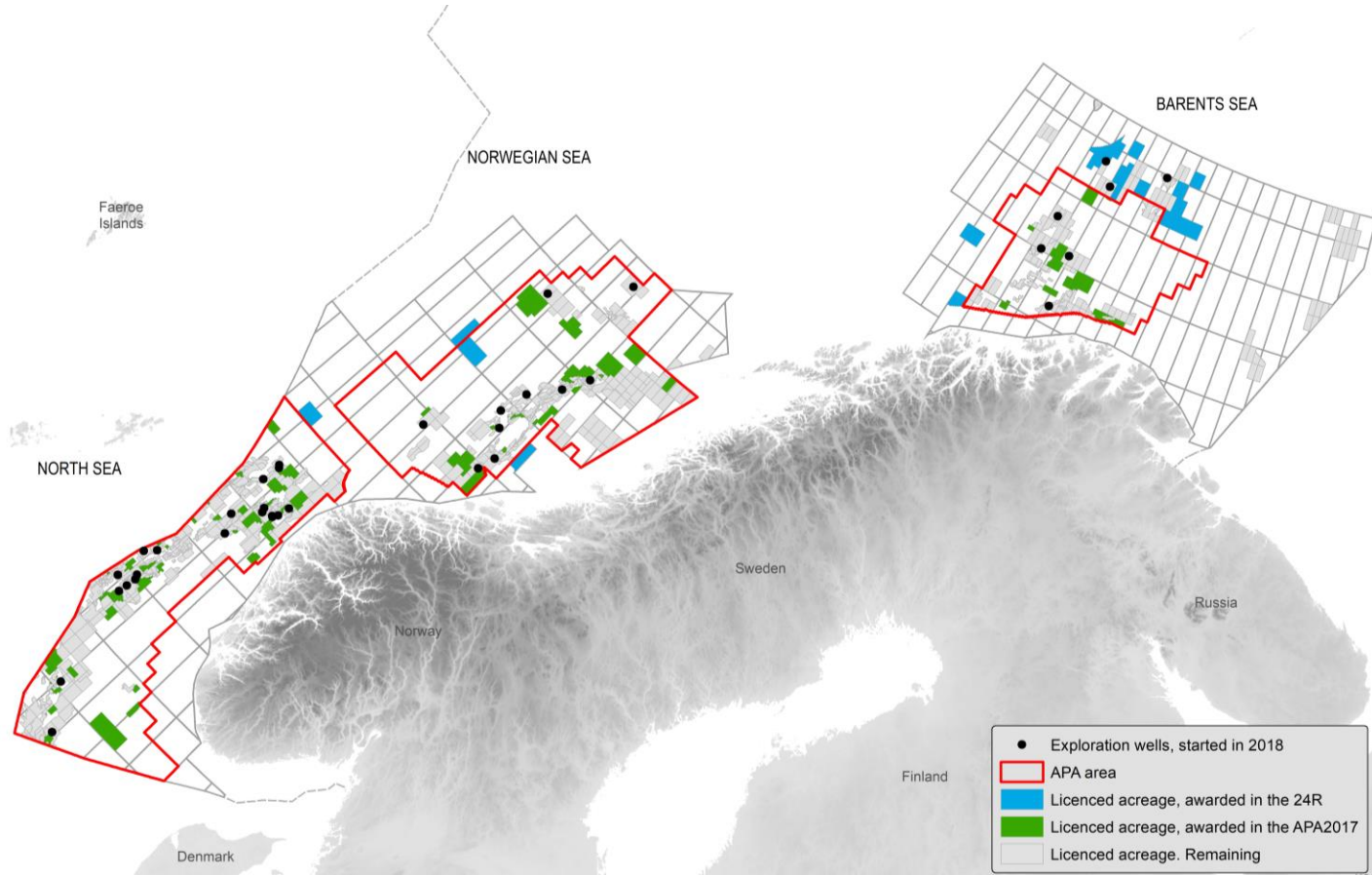


87
PRODUCTION
LICENCES

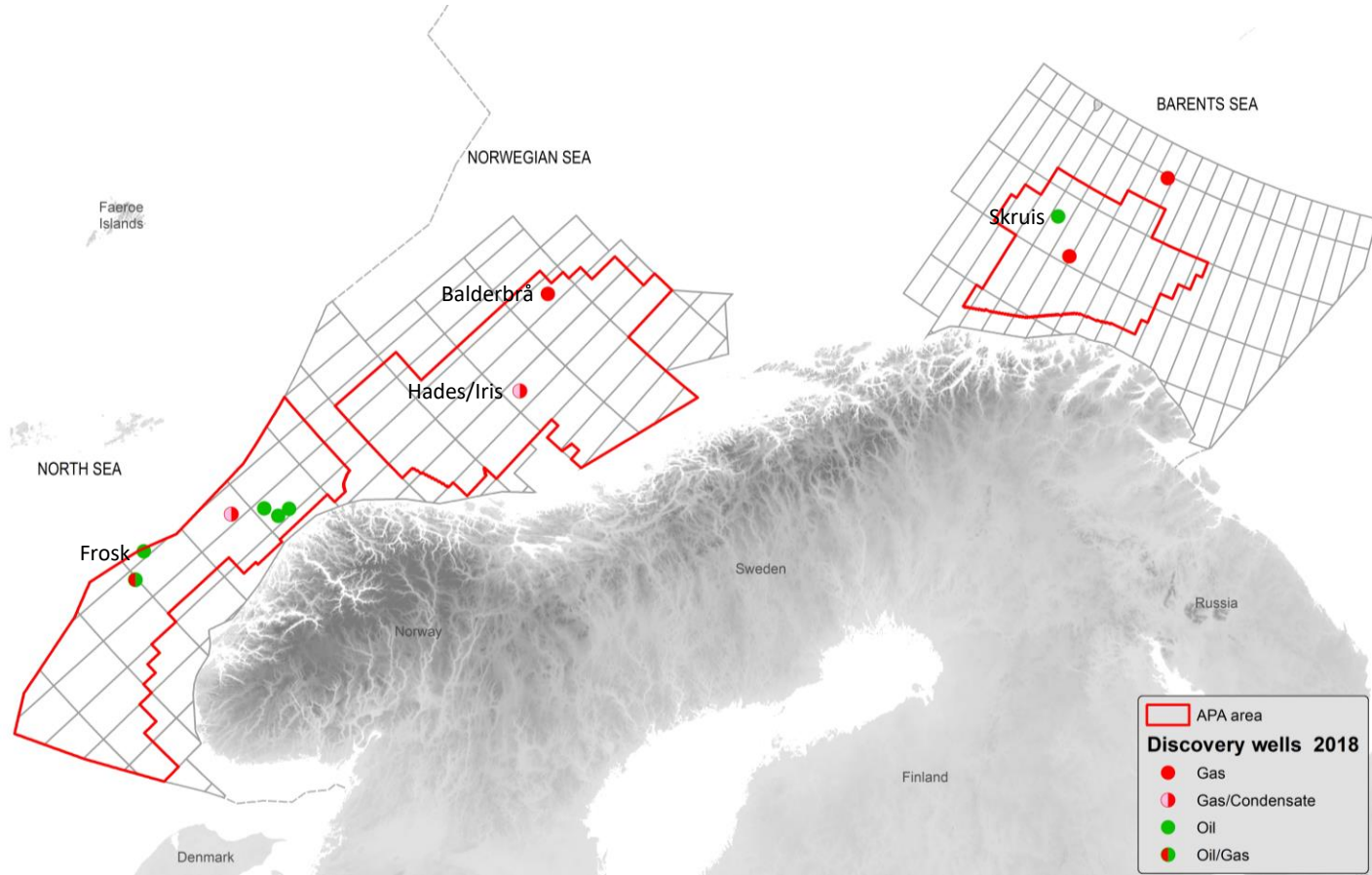
High exploration activity



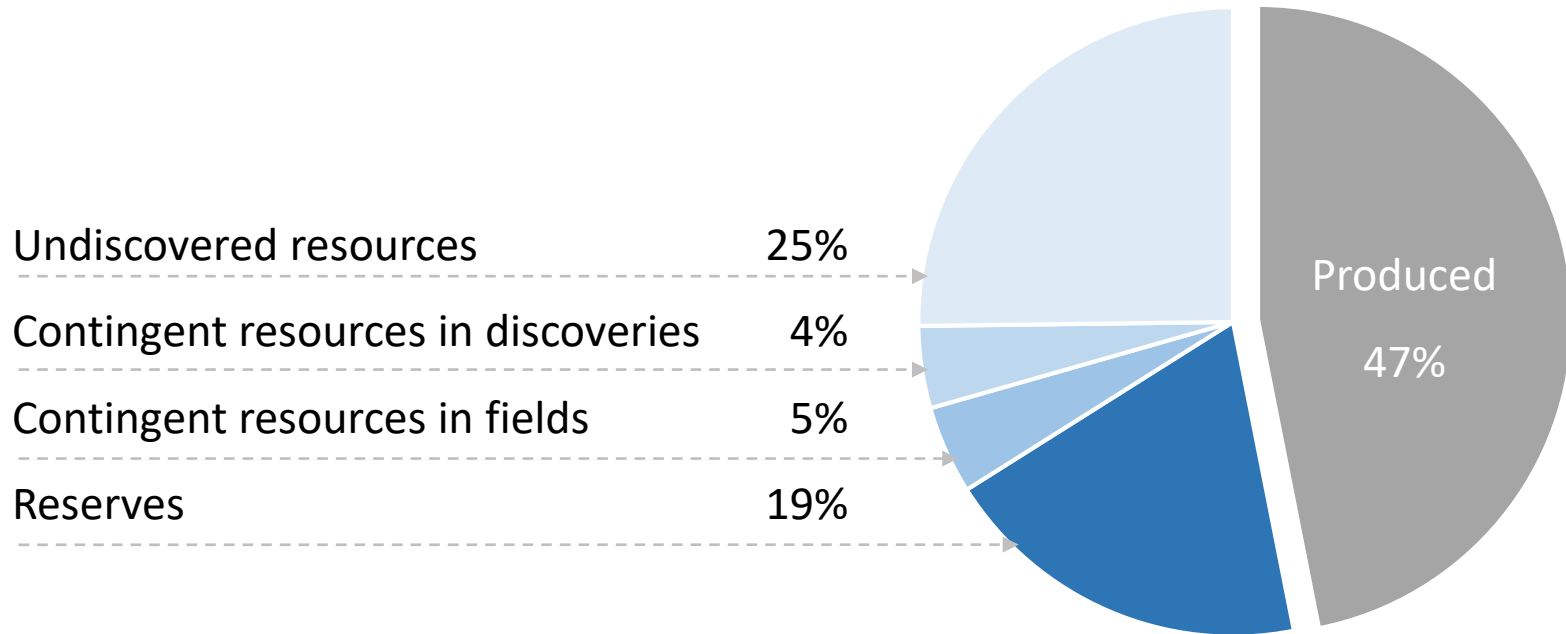
Most wells in areas near infrastructure



11 discoveries – good resource growth

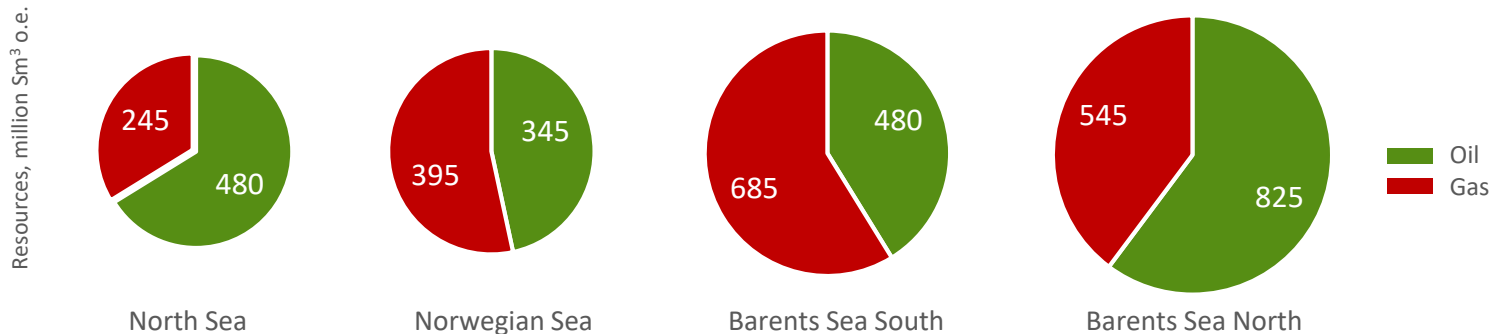
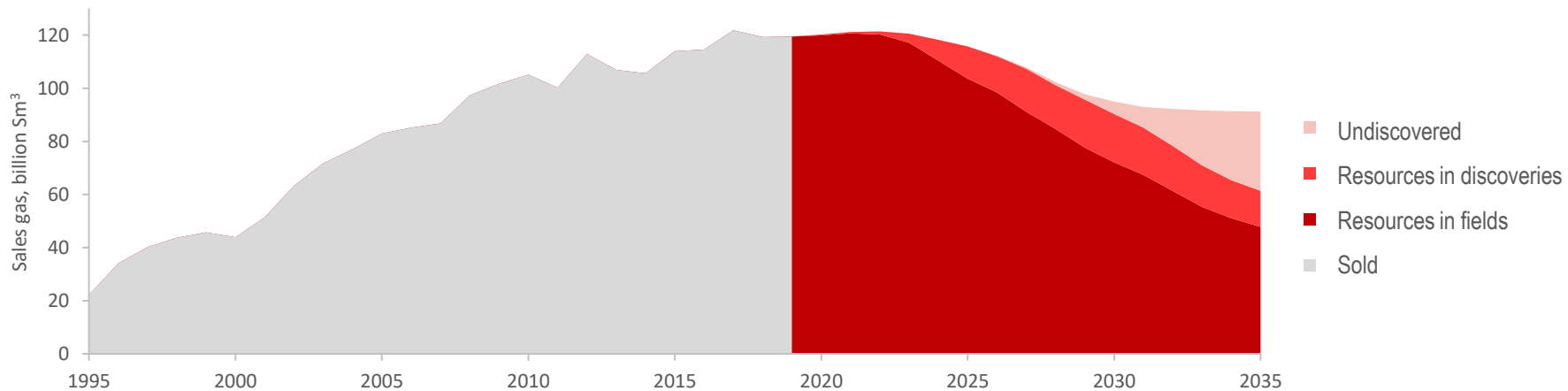


More than half remains

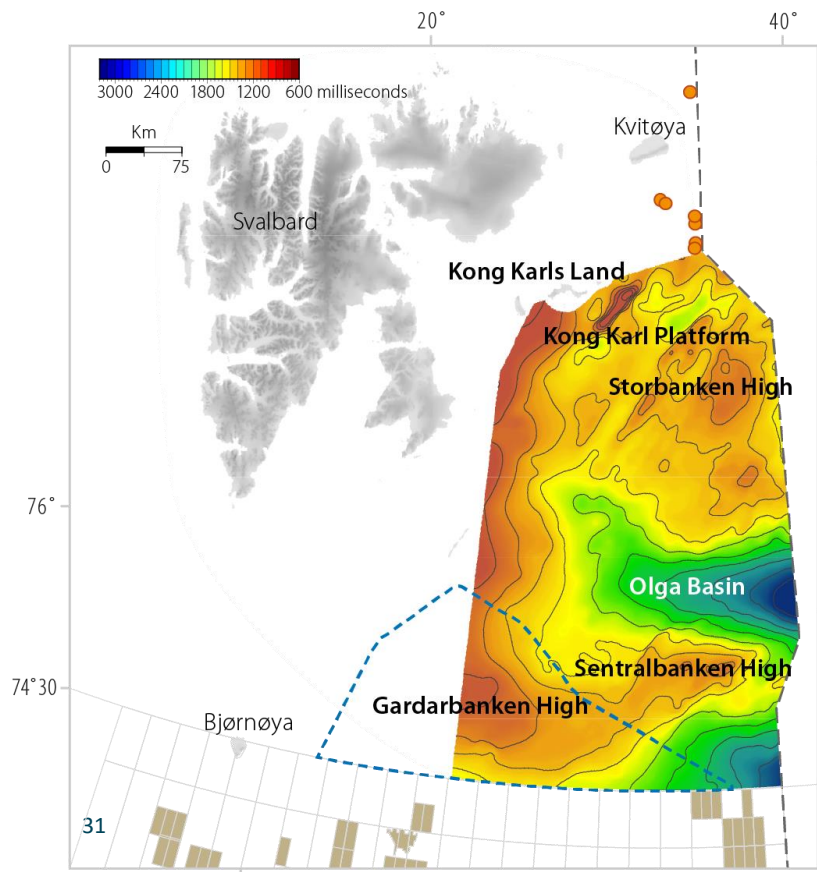


Total resources: 15.6 billion Sm³ oe

Industry must explore for gas

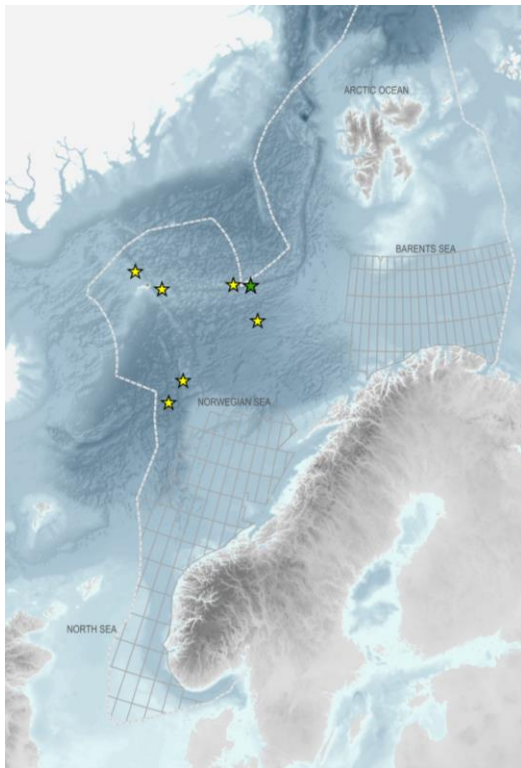


The Northern areas – important for making major discoveries



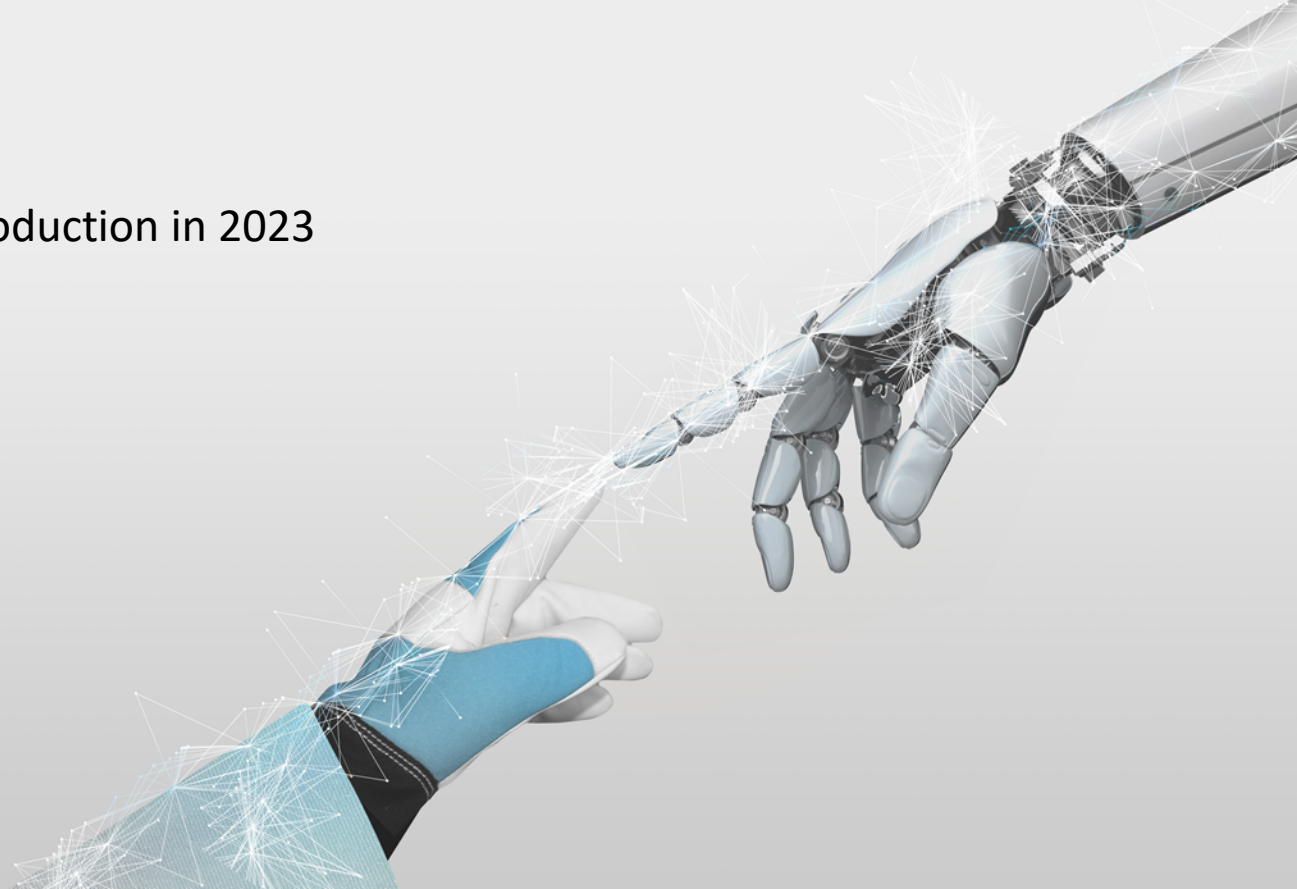
- Mapping in the Barents Sea North reveals major structures
- Mapping continues in the northeast towards Russia

Seabed minerals – a new chapter?



The Norwegian oil and gas story – barely half way

- High activity
- Headed for record production in 2023
- More gas to Europe





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Thank you for your attention!

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